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TO: **Jeffrey A. Smith**  
 COMPANY: **Patent & Trademark Office**  
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 PHONE NUMBER:  
 RE: **U.S.S.N.: 09/653,555**

FROM: **Brian L. Ribando**

DATE: **June 15, 2004**

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## NOTES/COMMENTS

Dear Mr. Smith:

Attached are pages 5, 6, 9-19, 28 and 29 of the 1998 Green Guide to Cars & Trucks. We would like to discuss this information in our telephone interview with you scheduled for Thursday June 17, 2004 at 10:00 a.m.

Sincerely,

*Brian L. Ribando*

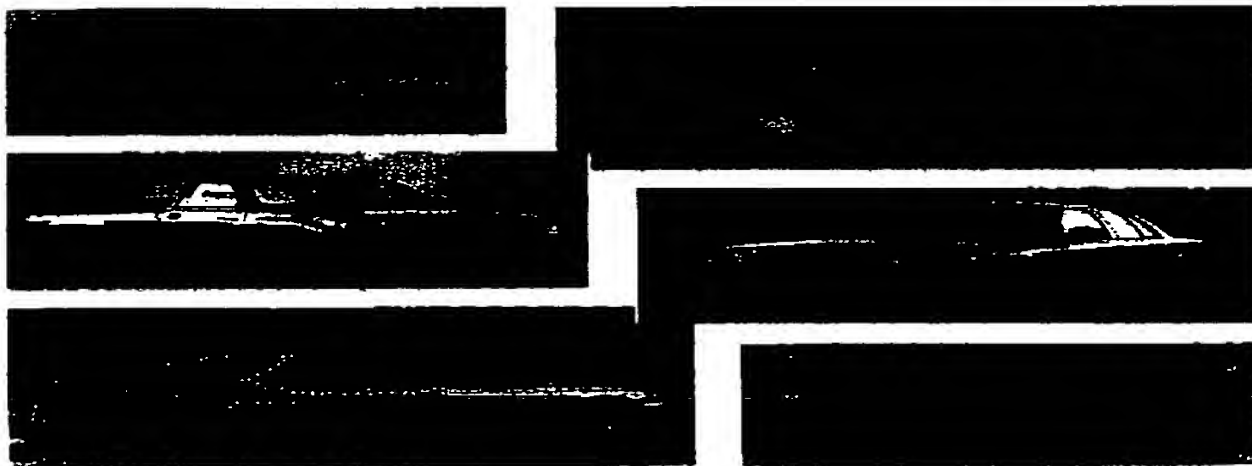
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# Green Guide to Cars & Trucks

MODEL YEAR  
**1998**



by **John DeCicco**  
 and **Martin Thomas**

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## Buying Green

The *Green Guide* will help you select a vehicle that does the least harm to the planet while meeting your transportation needs. Based on official emissions and fuel-economy test results and other specifications reported by auto manufacturers, we calculated a Green Score for each car, van, pickup, and sport utility on the market in 1998. The Green Score falls on a scale of zero to 100. A higher score implies a greener car, meaning a vehicle having lower environmental impacts.

### Green Scores and Class Rankings

In our tables, vehicles are grouped together by class (that is, the type or body style, such as midsize car, minivan, standard pickup, and so on). To summarize our ratings and make it easy to find the top-rated vehicles in each class, we use five symbols based on a model's rank within its class. No vehicle gets a Superior (✓) rating if its Green Score is worse than the overall average of all vehicles offered this model year, even if it ranks among the best in its class. Look for models with a check mark (✓), or next best, an upward-pointing triangle (▲), to find those that have the greenest scores.

To make it easy to find the most environmentally friendly new cars and trucks available this year, the next section of the *Green Guide* features "The Best of '98" list. It provides abbreviated listings of the vehicles having the highest Green Scores in each class. The easiest way to buy green is to select a vehicle from the "Best of" listings.

Our master table provides detail on each vehicle's emissions standard, fuel economy, fuel costs, health effects, CO<sub>2</sub> emissions, and overall environmental impact, along with its Green Score and Class Ranking. If you have identified a set of

#### Class Ranking Symbols

- ✓ Superior
- ▲ Above Average
- Average
- ▽ Below Average
- ✱ Inferior

The symbols indicate a vehicle's environmental performance relative to others in its class.

## GREEN GUIDE TO CARS AND TRUCKS

### Different Versions of a Model Have Different Green Scores

Nearly all models come in different configurations, meaning different choices of engine, transmission, and other major options. A model may also be available in versions that meet different emissions standards or run on various alternative fuels. To match a model in the show room with a listing in the *Green Guide*, first match its emissions standard. Then check its engine size and transmission type, which will also determine its city and highway fuel economy ratings.

models to consider, you can look them up in this table to comparison shop with the environment in mind.

For most consumers, the Green Score and Class Ranking provide a good indication of a car's environmental performance. We explain the factors behind the Green Score in the Appendix, "How the Ratings are Calculated." In general, a vehicle is greener if it is cleaner (having lower exhaust emissions) or more fuel efficient (resulting in lower energy consumption and CO<sub>2</sub> emissions).

All new vehicles for sale in the United States are certified to meet either Federal emissions standards, set by the U.S. Environmental Protection Agency (EPA), or California standards, set by the California Air Resources Board (CARB). These exhaust emissions standards limit the amounts of key pollutants coming from a vehicle's tailpipe and leaks in its fuel system. California has a set of standards that are progressively more stringent by pollutant. Except for a few makes and models, however, only Federally certified versions may be available in many states.

In order of increasing stringency (decreasing exhaust emissions), the principal tailpipe standards applicable to 1998 vehicles are:

- Tier 1 the prevailing Federal (EPA) standard.
- TLEV Transitional Low Emission Vehicle, the weakest California standard.
- LEV Low Emission Vehicle, an intermediate California standard about twice as stringent as Tier 1.
- ULEV Ultra Low Emission Vehicle, a stronger California standard emphasizing very low HC emissions.
- SULEV Super Low Emission Vehicle, a California standard even tighter than ULEV and prohibiting emissions of fuel vapors.
- ZEV Zero Emission Vehicle, a California standard prohibiting any tailpipe emissions.

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## *The Best of '98*

**T**he easiest way to choose a clean and efficient vehicle is to use this section of the Green Guide. Here we have compiled a list of the greenest vehicles in each class. If, for example, you are in the market for a compact, simply look under "Compact Cars" to find the top-rated models.

We separately list the best Federally certified and California-certified vehicles so you can locate the models that will be available in your state or region. Some California-certified Low Emission Vehicles (LEVs), such as 1998 Honda Accords, are available nationwide this year.

If you are considering a model that is made in a California-certified version, ask your dealer for it even if you are not in California, Massachusetts, or New York. Some of these models might be available elsewhere.

Even if you can only obtain a Tier 1 vehicle this year, asking for cleaner cars provides feedback to the automakers, and cleaner versions might become more widely available in the future.

Our "Best of '98" tables list only the general vehicle make and model, not all of its configurations. See the master table starting on page 27 for complete information.

### **Even New Vehicles Aren't as Clean as You Think**

Automakers often claim that their new cars are "96 percent cleaner" than those of decades past. This statement is false. Just because a new car or truck meets the new tailpipe standards doesn't mean that its pollution is adequately regulated. In fact, actual emissions over the life of today's automobiles average 2 to 4 times higher than the standard levels. The automakers' claim is based on laboratory tests that have a poor relation to typical driving. After all, what counts for our health is the air we breathe in real-world traffic conditions, not in a laboratory with carefully controlled conditions. Our Green Scores account for this discrepancy between lab tests and real-world driving.

## GREEN GUIDE TO CARS AND TRUCKS

## The Top-Rated Models by Vehicle Class

Specifications*	Emission Standard	Fuel type	City	Hwy	Green score	Class Ranking
<b>TWO SEATERS</b>						
<b>AUTOMATICS</b>						
<i>California Certified</i>						
<b>SUBCOMPACT CARS</b>						
<b>AUTOMATICS</b>						
<i>California Certified</i>						
<i>Federally Certified</i>						
HONDA CIVIC HX	1.6L 4, CVT	Tier 1	34	39	30	▲
CHEVROLET METRO†	1.3L 4, auto	Tier 1	30	34	29	▲
SUZUKI SWIFT†	1.3L 4, auto	Tier 1	30	34	29	▲
TOYOTA TERCEL	1.5L 4, auto 4 sp	Tier 1	30	37	29	▲
<b>MANUALS</b>						
<i>California Certified</i>						
<i>Federally Certified</i>						
CHEVROLET METRO†	1.0L 3, manual	Tier 1	44	49	35	✓
SUZUKI SWIFT†	1.3L 4, manual	Tier 1	39	43	33	✓
HONDA CIVIC HX	1.6L 4, manual	Tier 1	36	44	32	✓

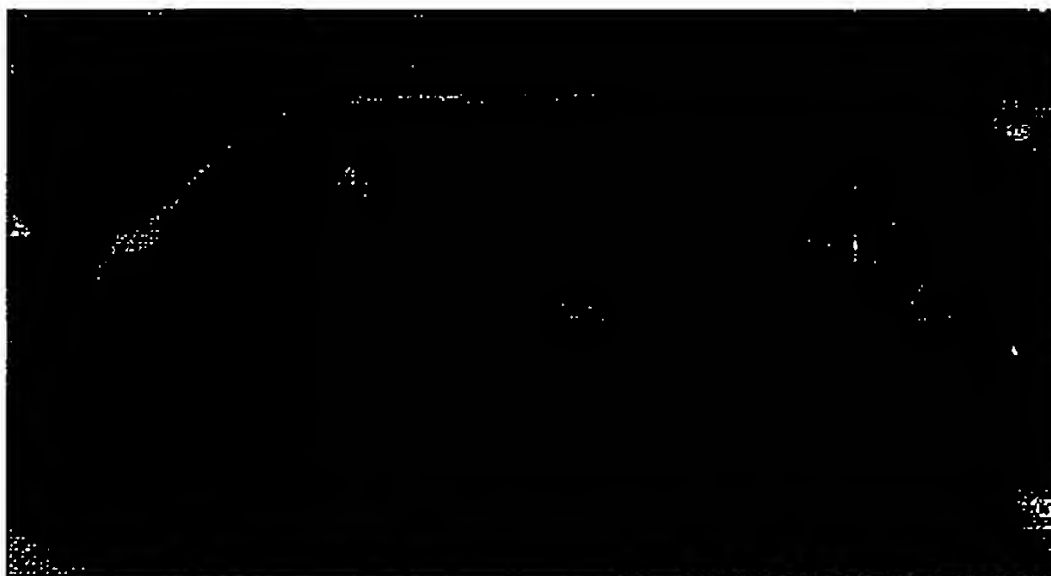
\* The "specs" include engine displacement in liters (L), number of cylinders, transmission type, and fuel type (e.g., D for diesel); see the Green Guide Key on pages 28-29 for further details.

† Electric vehicle fuel economy is given in miles per kilowatt hour (mi/kWh).

‡ Compressed natural gas (CNG) vehicle fuel economy is given in MPG gasoline-equivalent.


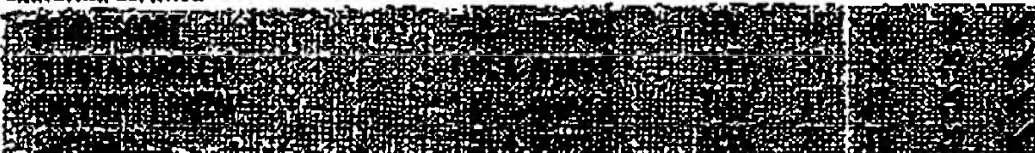
§ These vehicles are "twins"—the same base model carrying different names.

## THE BEST OF '98



Honda's technologically advanced engine and continuously variable automatic transmission give the Civic EX a best-in-class Green Score without sacrificing performance.

Photo: American Honda Motor Company

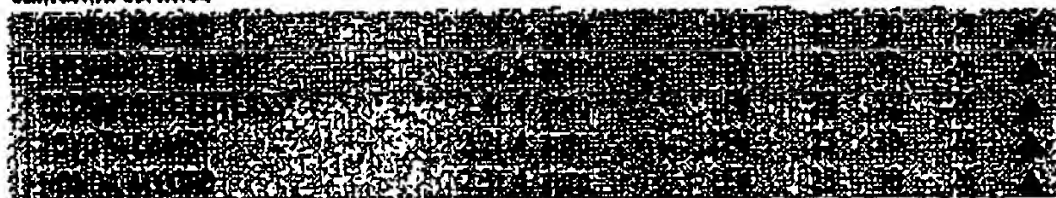
Specifications*	Emission Standards	Fuel Use City	Fuel Use Hwy	Green Score	Class Ranking
<b>COMPACT CARS</b>					
<b>AUTOMATICS</b>					
<i>California Certified</i>					
					
<i>Federally Certified</i>					
TOYOTA COROLLA†	1.8L 4, auto 4 sp	Tier 1	28	36	28 ▲
CHEVROLET PRIZM†	1.8L 4, auto 4 sp	Tier 1	28	36	28 ▲
SATURN SL	1.9L 4, auto	Tier 1	27	37	28 ▲
<b>MANUALS</b>					
<i>California Certified</i>					
					
<i>Federally Certified</i>					
DODGE NEON	2.0L 4, manual	Tier 1	29	41	30 ✓
TOYOTA COROLLA†	1.8L 4, manual	Tier 1	31	38	29 ✓
CHEVROLET PRIZM†	1.8L 4, manual	Tier 1	31	37	29 ✓
SATURN SL	1.9L 4, manual	Tier 1	28	39	29 ✓

## GREEN GUIDE TO CARS AND TRUCKS



With a 4-cylinder "VTEC" engine and sophisticated emissions control, this version of the Honda Accord is the first gasoline vehicle to meet ULEV standards when running on California's extra-clean reformulated gasoline.

*From American Honda Motor Company*

Specifications*	Emission Standard	Fuel Use City	Fuel Use Hwy	Green Score	Cost Rating
<b>MIDSIZE CARS</b>					
<b>AUTOMATICS</b>					
<i>California Certified</i>					
					
<i>Federally Certified</i>					
VOLKSWAGEN PASSAT	1.9L 4, auto [D]	Tier 1	31	44	26 ▲
CHEVROLET MALIBU†	2.4L 4, auto	Tier 1	23	32	24 ○
OLDSMOBILE CUTLASS†	2.4L 4, auto	Tier 1	23	32	24 ○
TOYOTA CAMRY	2.2L 4, auto	Tier 1	23	30	24 ○

\* The "specs" include engine displacement in liters (L), number of cylinders, transmission type, and fuel type (e.g., D for diesel); see the Green Guide Key on pages 28-29 for further details.

† These vehicles are "twins"—the same base model carrying different names

## THE BEST OF '98



Use of compressed natural gas enables the CNG version of the full-sized Ford Crown Victoria to meet ULEV standards, making it the top-rated large sedan in 1998.

*Photo: Ford Motor Company, offset Photo Database, Inc.*

Specifications <sup>a</sup>	Emission Standard	Fuel Econ City	Fuel Econ Hwy	Green Score	Class Ranking
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### MIDSIZE CARS (cont.)

#### MANUALS

##### California Certified

TOYOTA CAMRY	1.8L 4, manual [D]	Tier 1	39	50	28	✓
MAZDA 626	2.0L 4, manual	Tier 1	26	33	27	▲
HONDA ACCORD	2.3L 4, manual	Tier 1	24	31	25	▲

##### Federally Certified

VOLKSWAGEN PASSAT	1.9L 4, manual [D]	Tier 1	39	50	28	✓
MAZDA 626	2.0L 4, manual	Tier 1	26	33	27	▲
HONDA ACCORD	2.3L 4, manual	Tier 1	24	31	25	▲

### LARGE CARS

#### AUTOMATICS

##### California Certified

FORD CROWN VICTORIA CNG	4.0L V6, CNG	Tier 1	24	31	25	▲
TOYOTA CAMRY	2.4L 4, automatic	Tier 1	24	31	25	▲
MAZDA 626	2.5L 4, automatic	Tier 1	24	31	25	▲
HONDA ACCORD	2.7L 4, automatic	Tier 1	24	31	25	▲

<sup>a</sup> Compressed natural gas (CNG) vehicle fuel economy is given in MPG gasoline-equivalent.



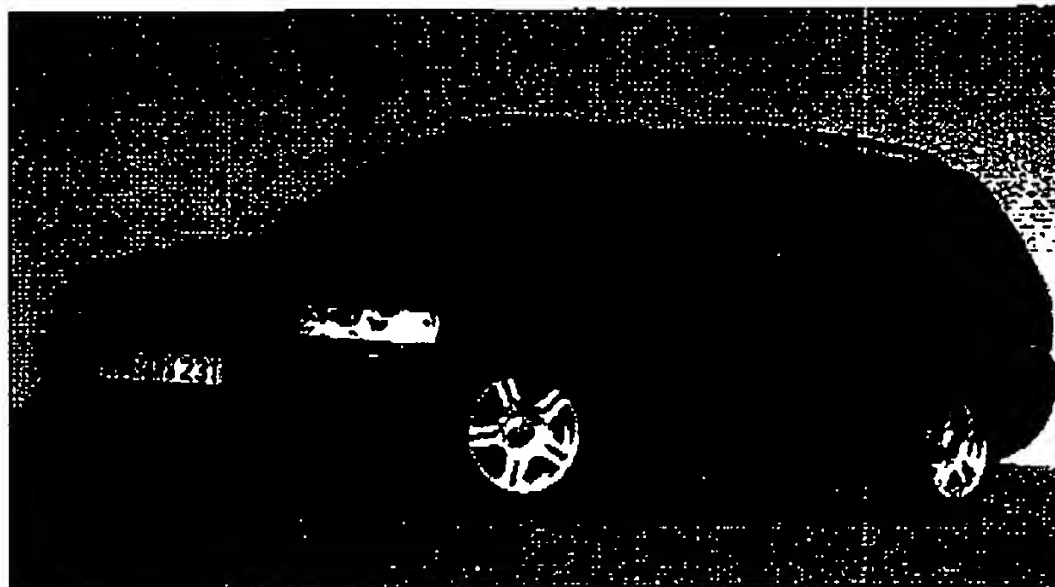
## GREEN GUIDE TO CARS AND TRUCKS

Specifications*		Emission Standard	Fuel Use City Hwy		Green Score	Class Ranking
LARGE CARS (cont.)						
AUTOMATICS (cont.)						
Federally Certified						
TOYOTA AVALON	3.0L 6, auto	Tier 1	21	30	23	▲
CHRYSLER CONCORDE†	2.7L 6, auto	Tier 1	21	30	23	▲
DODGE INTREPID†	2.7L 6, auto	Tier 1	21	30	23	▲
BUICK LESABRE	3.8L 6, auto	Tier 1	19	30	22	▲
SMALL WAGONS						
AUTOMATICS						
California Certified						
[REDACTED]						
[REDACTED]						
[REDACTED]						
[REDACTED]						
[REDACTED]						
Federally Certified						
SATURN SW	1.9L 4, auto	Tier 1	27	34	27	○
SUZUKI ESTEEM WAGON	1.6L 4, auto	Tier 1	26	33	27	○
FORD ESCORT WAGON†	2.0L 4, auto	Tier 1	25	34	26	○
INCLN-MRCRY TRACER WAGON†	2.0L 4, auto	Tier 1	25	34	26	○
MANUALS						
California Certified						
[REDACTED]						
[REDACTED]						
[REDACTED]						
[REDACTED]						
[REDACTED]						
Federally Certified						
SUZUKI ESTEEM WAGON	1.6L 4, manual	Tier 1	30	36	28	✓
FORD ESCORT WAGON†	2.0L 4, manual	Tier 1	28	38	28	▲
INCLN-MRCRY TRACER WAGON†	2.0L 4, manual	Tier 1	28	38	28	▲
SATURN SW	1.9L 4, manual	Tier 1	27	37	28	▲

\* The "specs" include engine displacement in liters (L), number of cylinders, transmission type, and fuel type (e.g., D for diesel); see the Green Guide Key on pages 28-29 for further details.

† These vehicles are "twins"—the same base model carrying different names.

## THE BEST OF '98

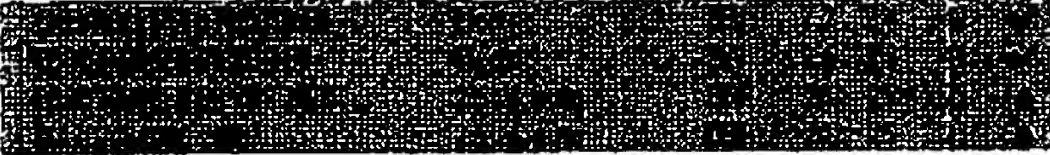
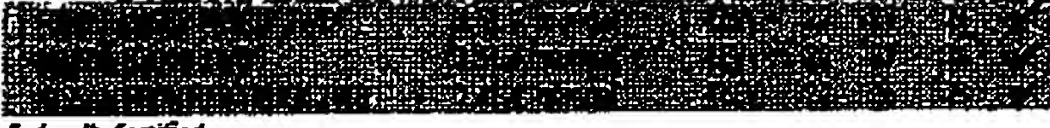
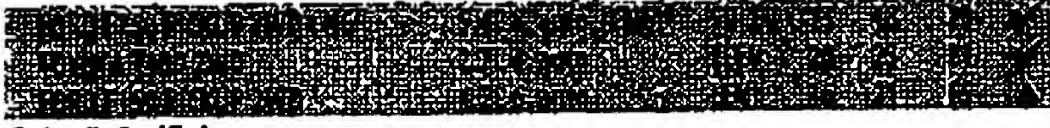


The diesel version of VW's Passat Wagon offers outstanding fuel economy, allowing a good Green Score in spite of the diesel's higher NO<sub>x</sub> and PM emissions.

*Photo: Volkswagen of America*

Specifications*	Emission Standard	Fuel Use City	Fuel Use Hwy	Green Score	Class Ranking
<b>LARGE WAGONS</b>					
<b>AUTOMATICS</b>					
<i>California Certified</i>					
<i>Federally Certified</i>					
VOLKSWAGEN PASSAT WAGON	1.9L 4, auto (D)	Tier 1	31 44	26	▲
SUBARU LEGACY WAGON	2.2L 4, auto	Tier 1	24 31	25	▲
<b>MANUALS</b>					
<i>California Certified</i>					
<i>Federally Certified</i>					
VOLKSWAGEN PASSAT WAGON	1.9L 4, manual (D)	Tier 1	39 50	28	✓
SUBARU LEGACY WAGON AWD	2.2L 4, manual Awd	Tier 1	23 30	24	○

## GREEN GUIDE TO CARS AND TRUCKS

Specifications*	Emission Standard	Pass City	Pass Hwy	Green Score	Class Rating
<b>COMPACT PICKUPS</b>					
<b>AUTOMATICS</b>					
<i>California Certified</i>					
					
<i>Federally Certified</i>					
TOYOTA TACOMA 2WD	2.4L 4, auto	Tier 1	21	24	22 ▲
FORD RANGER PICKUP 2WD†	2.5L 4, auto	Tier 1	20	25	21 ○
MAZDA B2000 2WD†	2.5L 4, auto	Tier 1	20	25	21 ○
<b>MANUALS</b>					
<i>California Certified</i>					
					
<i>Federally Certified</i>					
NISSAN FRONTIER TRUCK 2WD	2.4L 4, manual	Tier 1	22	26	23 ▲
TOYOTA TACOMA 2WD	2.4L 4, manual	Tier 1	22	27	23 ▲
FORD RANGER PICKUP 2WD†	2.5L 4, manual	Tier 1	22	27	22 ▲
MAZDA B2000 2WD†	2.5L 4, manual	Tier 1	22	27	22 ▲
<b>STANDARD PICKUPS</b>					
<b>AUTOMATICS</b>					
<i>California Certified</i>					
					
<i>Federally Certified</i>					
TOYOTA T100 2WD	2.7L 4, auto	Tier 1	20	23	20 ✓
FORD F150 PICKUP 2WD	4.2L 6, auto	Tier 1	16	21	14 ○

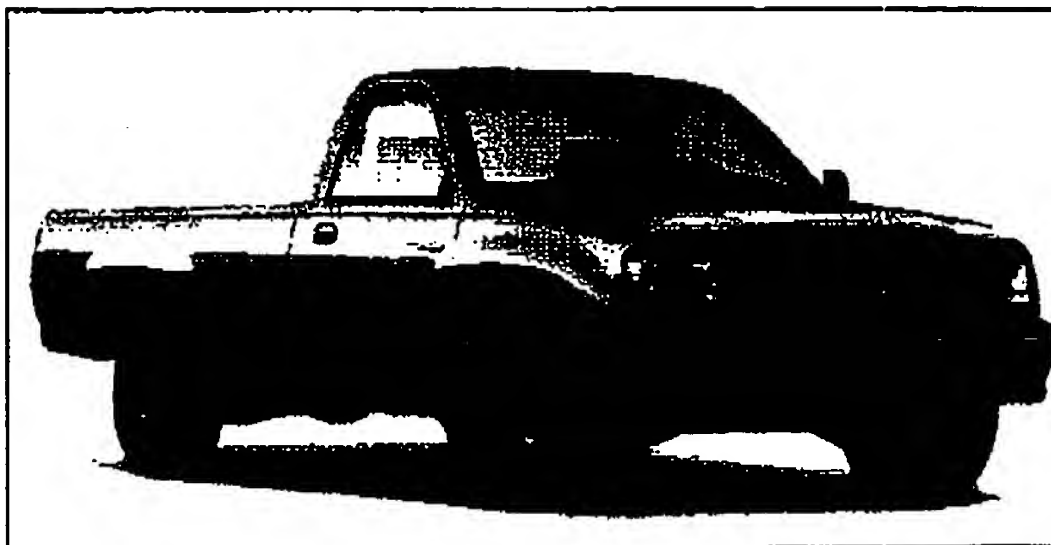
\* The "specs" include engine displacement in liters (L), number of cylinders, transmission type, and fuel type (e.g., D for diesel), see the Green Guide Key on pages 28-29 for further details.

† Electric vehicle fuel economy is given in miles per kilowatt hour (mi/kwh).

‡ Compressed natural gas (CNG) vehicle fuel economy is given in MPG gasoline-equivalent.

\* These vehicles are "twins"—the same base model carrying different names

## THE BEST OF '98



With an economical 4-cylinder engine, the rear-wheel drive version of Toyota's T100 is the top-rated gasoline-powered standard pickup.

*Prices: Toyota Motor Sales, U.S.A.*

Specifications*	Engine Displacement	Fuel Use City	Fuel Use Hwy	Green Score	Gas Ranking
<b>STANDARD PICKUPS (cont.)</b>					
<b>MANUALS</b>					
<i>California Certified</i>					
<i>Federally Certified</i>					
TOYOTA T100 2WD	2.7L 4, manual	Tier 1	19 24	20	✓
CHEVROLET C1500 PICKUP 2WD†	4.3L 6, manual	Tier 1	17 23	15	▲
GMC C1500 SIERRA 2WD†	4.3L 6, manual	Tier 1	17 23	15	▲

**SMALL UTILITIES****AUTOMATICS**

*California Certified*

<i>Federally Certified</i>					
TOYOTA RAV4 2WD	2.0L 4, auto	Tier 1	24 29	24	▲
CHEVROLET TRACKER†	1.6L 4, auto 3 sp	Tier 1	23 24	24	○
SUZUKI SIDEKICK RWD†	1.6L 4, auto 3 sp	Tier 1	23 24	24	○

## GREEN GUIDE TO CARS AND TRUCKS

Specifications*	Emission Standard	Fuel Use City	Fuel Use Hwy	Green Score	Class Ranking
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**SMALL UTILITIES (cont.)****MANUALS***California Certified*

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*Federally Certified*

TOYOTA RAV4 2WD	2.0L 4, manual	Tier 1	24	29	24	▲
CHEVROLET TRACKER†	1.6L 4, manual	Tier 1	24	26	24	○
SUZUKI SIDEKICK RWD†	1.6L 4, manual	Tier 1	24	26	24	○

**MEDIUM UTILITIES****AUTOMATICS***California Certified*

--	--	--	--	--	--

*Federally Certified*

TOYOTA 4RUNNER 2WD	2.7L 4, auto	Tier 1	20	24	21	▲
JEEP CHEROKEE 2WD	2.5L 4, auto	Tier 1	18	22	19	▲

**MANUALS***California Certified*

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*Federally Certified*

MITSUBISHI MONTERO SPORT 2WD†	2.3L 4, manual	Tier 1	22	25	22	✓
JEEP CHEROKEE 2WD	2.5L 4, manual	Tier 1	21	25	21	✓

**LARGE UTILITIES****AUTOMATICS***California Certified*

--	--	--	--	--	--

*Federally Certified*

CHEVROLET C1500 TAHOE 2WD	5.7L 8, auto	Tier 1	14	18	12	○
FORD EXPEDITION 2WD	4.6L 8, auto	Tier 1	14	19	12	○

\* The "specs" include engine displacement in liters (L), number of cylinders, transmission type, and fuel type (e.g., D for diesel); see the Green Guide Key on pages 28-29 for further details.

† These vehicles are "twins"—the same base model carrying different names.

## THE BEST OF '98



With the 4-cylinder engine and front-wheel drive, Chrysler's Dodge Caravan and its twin, Plymouth Voyager, offer the best Green Scores among minivans (other than the electrically powered Epic model).

*Source: Chrysler Corporation*

Specifications*	Exhaust Emissions	Fuel Use City	Fuel Use Hwy	Green Score	Class Ranking
<b>MINIVANS</b>					
<b>AUTOMATICS</b>					
<i>California Certified</i>					
<i>Federally Certified</i>					
DODGE CARAVAN 2WD†	2.4L 4, auto 3 sp	Tier 1	20 26	17	▲
PLYMOUTH VOYAGER 2WD†	2.4L 4, auto 3 sp	Tier 1	20 26	17	▲
<b>LARGE VANS</b>					
<b>AUTOMATICS</b>					
<i>California Certified</i>					
<i>Federally Certified</i>					
FORD E150 ECONOLINE 2WD	4.2L 6, auto	Tier 1	15 19	12	▲
CHEVROLET G15/25 CHEVY VAN	4.3L 6, auto	Tier 1	15 19	12	▲

\* Electric vehicle fuel economy is given in miles per kilowatt hour (mi/kWh).

† Compressed natural gas (CNG) vehicle fuel economy is given in MPG gasoline-equivalent.

## GREEN GUIDE TO CARS AND TRUCKS

## SAMPLE LISTING AND GREEN GUIDE KEY

Manufacturer and model.	Emission Standard—in order of most polluting to least polluting:  Federal certification: Tier1: Current national standard.  California certification (shaded): TLEV: Transitional Low Emission Vehicle LEV: Low Emission Vehicle ULEV: Ultra Low Emission Vehicle SULEV: Super Low Emission Vehicle ZEV: Zero Emission Vehicle	Fuel Use, City and Hwy. City and highway fuel economy in miles per gallon (MPG), adjusted to better reflect real-world driving conditions according to an EPA formula.  Values for Compressed Natural Gas (CNG) vehicles are in equivalent-MPG. Values for electric vehicles are in miles per kilowatt-hour (mi/kWh).	Fuel Cost Estimate annual costs based on 15,000 miles of driving, national average fuel prices.
Engine Displacement. Specified in liters (L).  Number of Cylinders.	Transmission. Manual or automatic transmission is indicated. For models with two or more automatic transmissions available, the number of speeds is given. A few vehicles have continuously variable automatic transmissions, indicated by CVT.	Fuel Type. All vehicles use regular gasoline unless indicated by:  [P] Premium Gasoline [D] Diesel [CNG] Compressed Natural Gas Electric	GHG to gasoline weight for extra impact

*Note:* Automakers use a variety of Designations, such as "DX," "LX," "SS," etc., on their vehicles, but their meaning is not uniform across makes and models. Therefore, the Green Guide relies on engine and transmission specifications to distinguish among models.

## GREEN RATINGS FOR 1998 VEHICLES

**Fuel Cost/yr.** Estimated annual fuel costs based on 15,000 miles of driving and national average fuel prices.

**Health Cost/yr.** Estimated annual health costs from pollution based on damage cost estimates and emissions of CO, HC, NO<sub>x</sub>, and PM. This value represents the annual cost imposed on society due to illnesses and premature deaths in proportion to the amount of pollution produced by the vehicle.

**Class Ranking.** This rating compares vehicles within the same class.

- ✓ Superior
- ▲ Above Average
- Average
- ▽ Below Average
- \* Inferior

Note: No vehicle can get a ✓ rating if its EDX is worse than the average for all 1998 vehicles, even if it is the best in its class.

**GHG tons/yr.** Tons of CO<sub>2</sub> and other greenhouse gasses (GHG) emitted per year. Other GHGs are weighted according to their global warming impact. For example, a pound of methane has the same impact as about 22 pounds of CO<sub>2</sub>.

**EDX c/mile.** The Environmental Damage Index represents a vehicle's overall environmental impact. The EDX is expressed as the environmental cost to society from each mile the vehicle travels (in cents per mile) accounting for the health costs and the risks associated with global warming.

**Green Score.** The EDX is converted to a 0-100 Green Score scale, where 100 represents the ideal of a pollution-free vehicle. The Green Score can be used to compare vehicles across different classes.



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